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Notice of Allowability

Application No.

09/818,447

Examiner

VAN H. NGUYEN

Applicant(s)

OLSON ET AL.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Applicants amendments on 7/11/05 and 9/12/05.
2. ☒ The allowed claim(s) is/are 1, 3-16, 29, and 35-40 (now renumbered 1-22).
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☒ Other The drawings filed 3/27/01 are acceptable.

MENG-AL T. AN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100

Examiner's Amendment

I. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

II. Authorization for this examiner's amendment was given in a telephone interview with Mr. John Ling (Reg. No.51, 216) on September 12, 2005.

III. **The application has been amended as follows:**

A. In the specification:

All previous copy of the first paragraph in the specification immediately following the title has been replaced with the following clean copy of the paragraph as amended by the Examiner's amendment:

Cross-Reference to Related Applications

This application is related to copending U.S. Patent Application Serial No. 09/818,448, entitled PROTOCOL AGNOSTIC WEB LISTENER and filed on March 27, 2001, now patent number US 6,931,647 B1.

B. In the claims:

1. All previous copies of claims 1, 3-6, 10, 29, and 35-40 have been replaced with the following clean copy of claims 1, 3-6, 10, 29, and 35-40 as amended by the Examiner's amendment:

Claim 1. A computer system for communicating over a protocol, comprising:

a class factory that selects a protocol object creator that produces an object associated with a protocol for communicating over a network comprising:

a plurality of identifiers; and

at least one registered protocol object creator associated with at least one of the plurality of identifiers, the at least one registered protocol object creator creates at least one protocol object;

the at least one protocol object comprising:

a reading component adapted to read a first data from a resource, the first data having at least one of, a format specific to the protocol and one or more headers and/or footers specific to the protocol when it is read from the resource; and

a writing component adapted to write a second data to the resource, the second data having at least one of, a format specific to the protocol and one or more headers and/or footers specific to the protocol when it is written to the resource.

Claim 3. The system of claim 1, wherein the resource is at least one of, a service, an application and a content source, the resource being accessible over a network.

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Claim 4. The system of claim 1, wherein the protocol is at least one of a Hypertext Transfer Protocol (HTTP), a File Transfer Protocol (FTP) and a Simple Mail Transport Protocol (SMTP).

Claim 5. The system of claim 1, wherein the plurality of identifiers comprise one or more Uniform Resource Identifiers (URIs).

Claim 6. The system of claim 1, wherein the plurality of identifiers comprise one or more prefixes associated with one or more URIs.

Claim 10. The system of claim 1, wherein the at least one protocol object is adapted to read the first data from the resource.

Claim 29. A computer system for communicating over a protocol, comprising:

- a class factory that selects a protocol object creator that produces an object associated with a protocol comprising:

- a plurality of identifiers, where the identifiers are URIs; and

- at least one registered protocol object creator, the at least one registered protocol object creator adapted to create at least one protocol object;

- the at least one protocol object comprising:

- a reader adapted to read a first data from a resource, where the first data has formatting specific to the protocol when the first data is read from the resource, where the protocol is at least one of a Hypertext Transfer Protocol (HTTP), a File

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Transfer Protocol (FTP) and a Simple Mail Transport Protocol (SMTP), where the resource is at least one of a service, an application and a content source, and where the resource is accessible over a network; and

a writer adapted to write a second data to the resource, where the second data has formatting specific to the protocol when the second data is written to the resource.

Claim 35. The system of claim 29, information associated with the identifiers of the resource comprises one or more Uniform Resource Identifiers (URIs).

Claim 36. The system of claim 29, information associated with the identifiers of the resource comprises one or more prefixes associated with one or more URIs.

Claim 37. The system of claim 29, the object generator is associated with one or more constructors, each constructor produces a protocol object specific to a particular protocol.

Claim 38. The system of claim 37, the protocol object reads data from a first resource, formats read data as a byte stream, and writes data to a second resource.

Claim 39. The system of claim 38, the first and second resources are the same resource.

Claim 40. The system of claim 29, the resource is at least one of a service, an application, and a content source, and is available over a network.

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2. Claims 2 and 30-34 have been cancelled.


IV. Any inquiry concerning this communication or earlier communications from the examiner should be directed to VAN H. NGUYEN whose telephone number is (571) 272-3765. The examiner can normally be reached on Monday-Thursday from 8:30AM - 6:00PM. The examiner can also be reached on alternative Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on (571) 272-3756.

The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


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